

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/DK 03/00688

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 H03F3/217 H03F1/32

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 H03F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6 518 838 B1 (RISBO LARS) 11 February 2003 (2003-02-11) column 4, line 1 - column 5, line 26 ---	1-28
A	US 6 344 811 B1 (MELANSON JOHN LAURENCE) 5 February 2002 (2002-02-05) column 1, line 61 - column 2, line 54 ---	1-28
E	EP 1 376 858 A (BANG & OLUFSEN AS ;KARSTEN NIELSEN (DK)) 2 January 2004 (2004-01-02) page 5, line 45 - line 50 ---	1-28
A	US 2002/180518 A1 (WAGH POOJAN A ET AL) 5 December 2002 (2002-12-05) paragraph [0013] - paragraph [0015] --- -/--	1-28

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search

5 May 2004

Date of mailing of the international search report

18. 05. 2004

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>US 6 297 692 B1 (NIELSEN KARSTEN)  2 October 2001 (2001-10-02)  column 2, line 63 -column 3, line 38  -----</p>	1-28

# INTERNATIONAL SEARCH REPORT

International application No.  
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## Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☒ Claims Nos.: **1-28 in part**  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:  
**see FURTHER INFORMATION sheet PCT/ISA/210**
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: 1-28 in part

The single general inventive concept is not clearly expressed by the four independent claims in the application. According to Rule 13.1 the application shall relate to one invention only or to a group of inventions so linked as to form a single general inventive concept. From the description the general concept is considered as the problem of unstable power supply in switching amplifiers, which has an influence on the resulting amplified signal and this problem is in the application solved by that the signal to be amplified is compensated by modifying the signal itself in compensation means connected to the power supply, instead of controlling the amplifier and/or power supply. The compensation means comprises a forward path with loop filter, modulation means and quantization means and a feedback path with digital-to-analog converter and variable amplifier. The compensation means also includes decimation means and extrapolation means. The compensated signal is added to the input signal of the amplifier resulting in an amplified signal where variations in the power supply voltage are partially counteracted. Consequently the search has been carried out for those parts of the application covered by the concept and the report is established only for the concept searched.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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